

ABSTRACT

Disclosed herein is a toothbrush with tapered bristles
5 and method of manufacturing such toothbrushes. The
toothbrush is characterized in that the tapered end of each
bristle is 0.02mm or less of diameter. The bristle is tapered
starting at a position of 3.5mm or less from an end, and is
made of polyethylene terephthalate or polybutylene
10 terephthalate. The method of this invention consists of the
steps of dipping 3.5mm portions from ends of monofilaments
for toothbrushes into erosive chemicals such as sulfuric acid
or sodium hydroxide until the dipped portions of the
monofilaments are completely eroded, neutralizing the
15 shortened monofilaments prior to rinsing and drying them, and
implanting the shortened monofilaments on a toothbrush.
Thereafter, the shortened monofilaments are ground using a
240# mesh paper at 2600 to 2700rpm for 3 to 10sec, a 320#
mesh paper at same speed for 3 to 10sec, and a 400# mesh
20 paper at same speed for 3 to 10sec. The toothbrush of this
invention enjoys advantages of proper flexibility and
softness, improved feeling while brushing, and excellent
scaling ability.